

FIG. 1

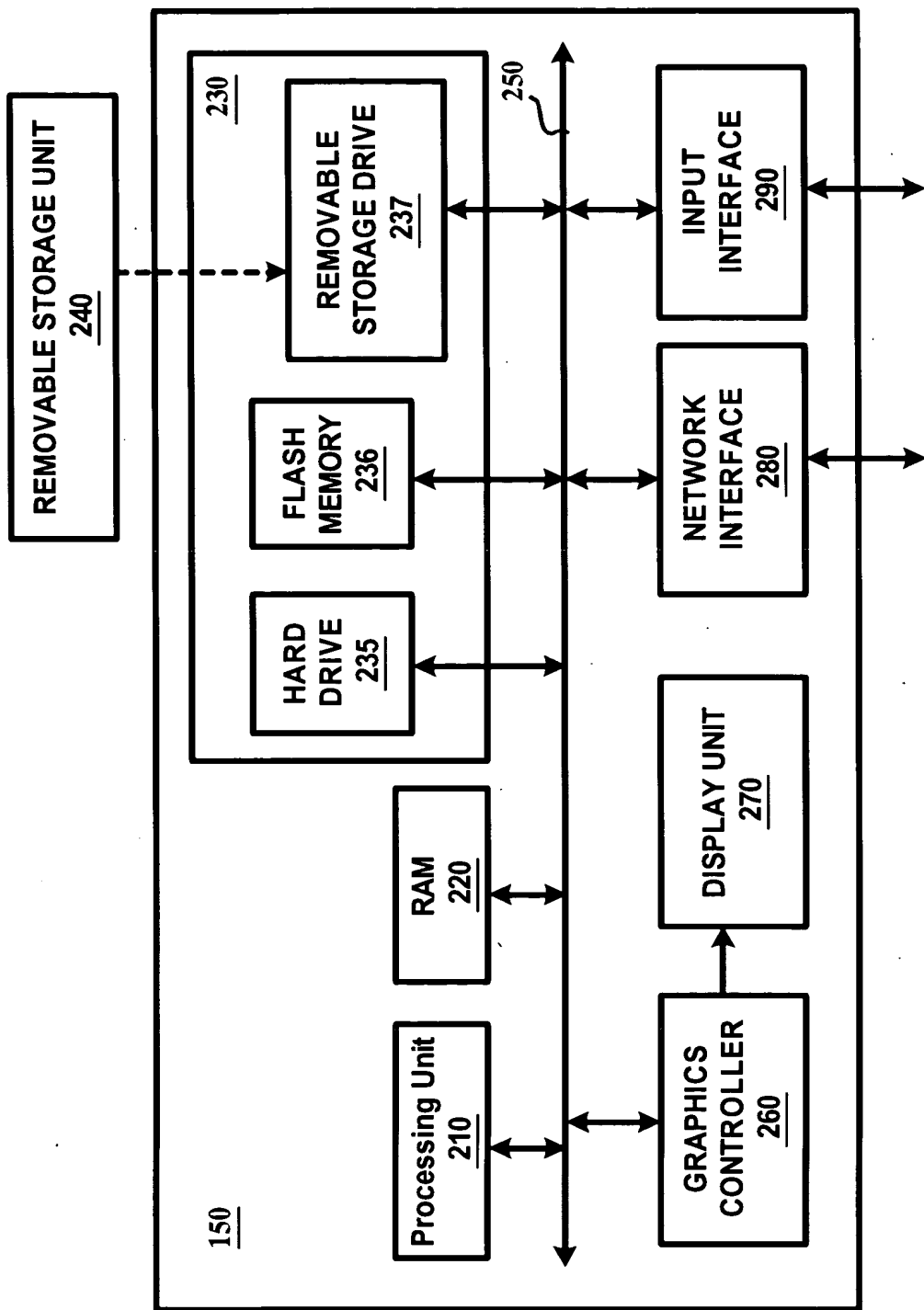


FIG. 2

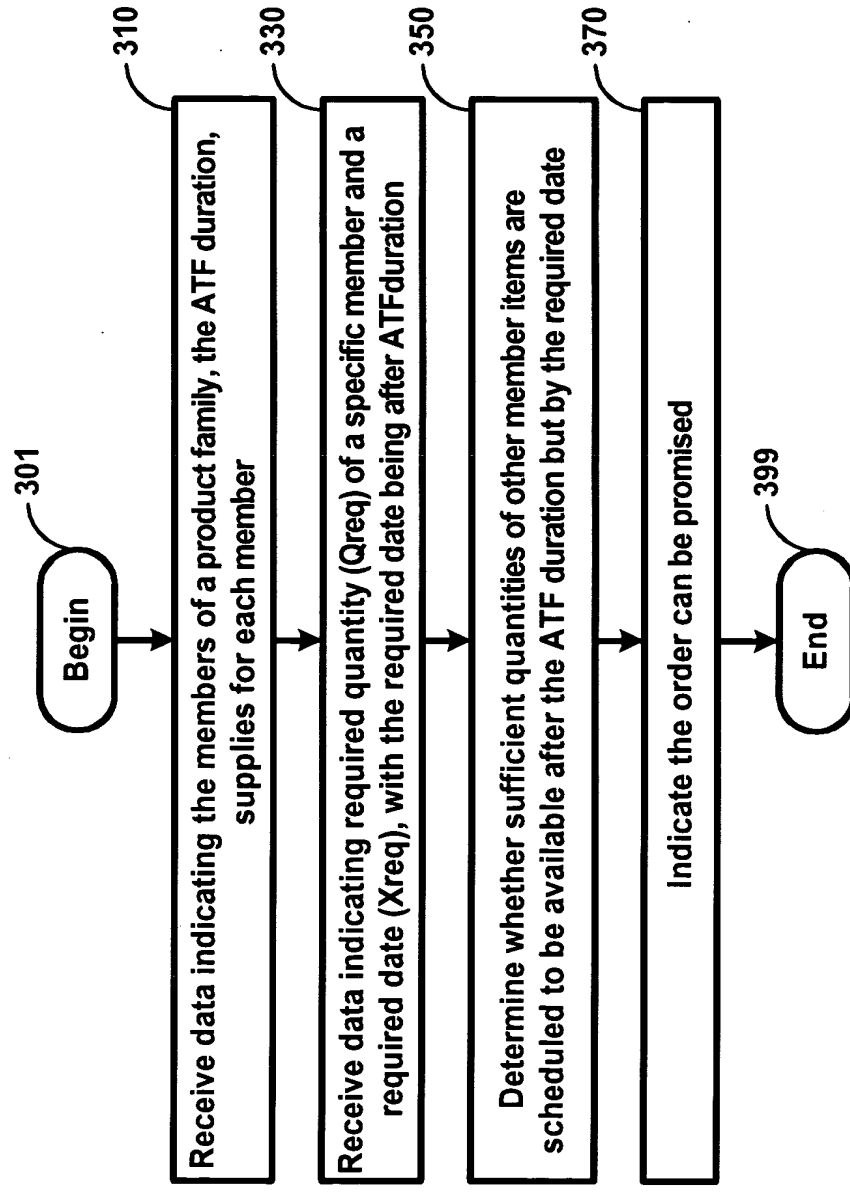


FIG. 3

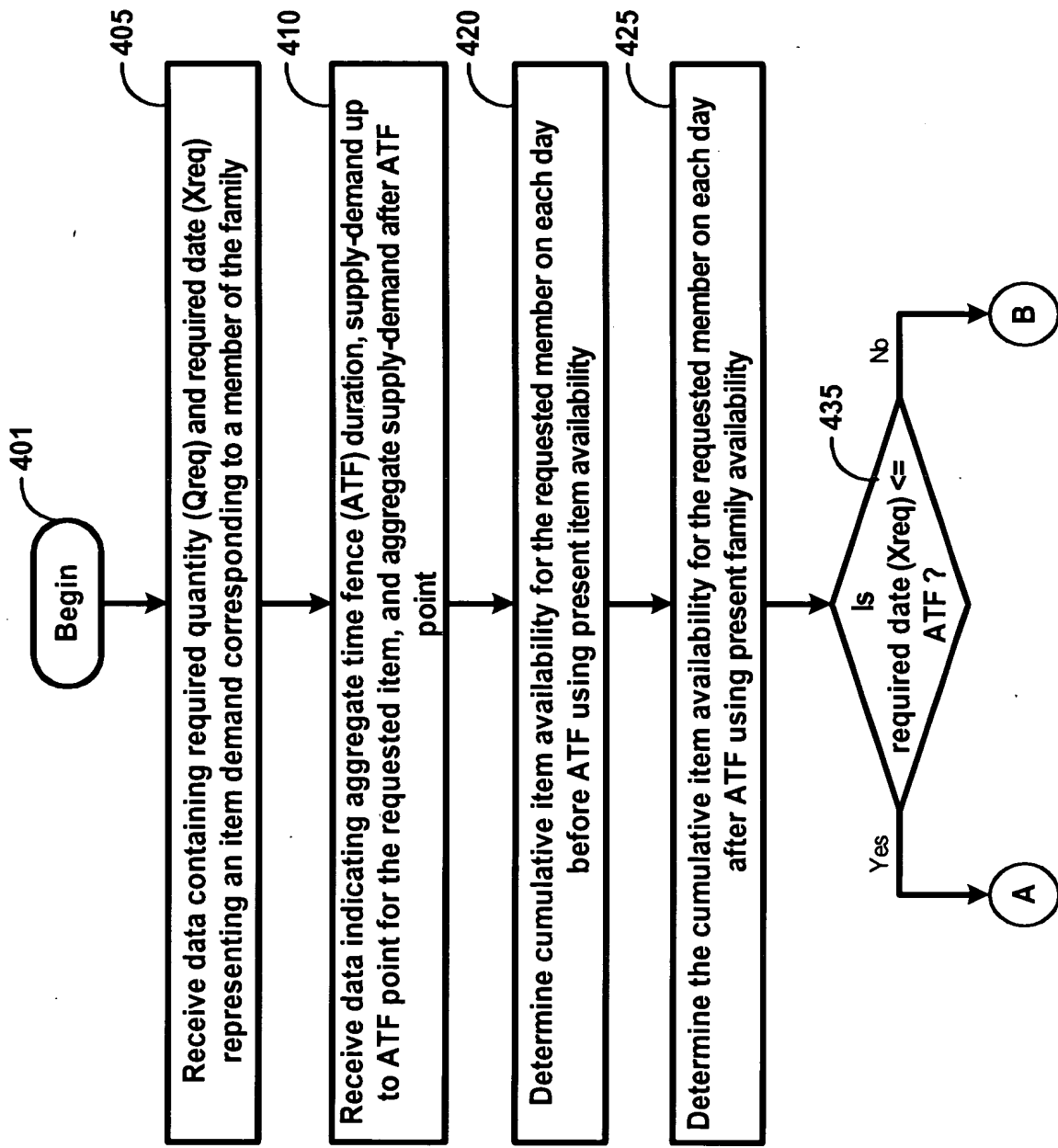


FIG. 4A

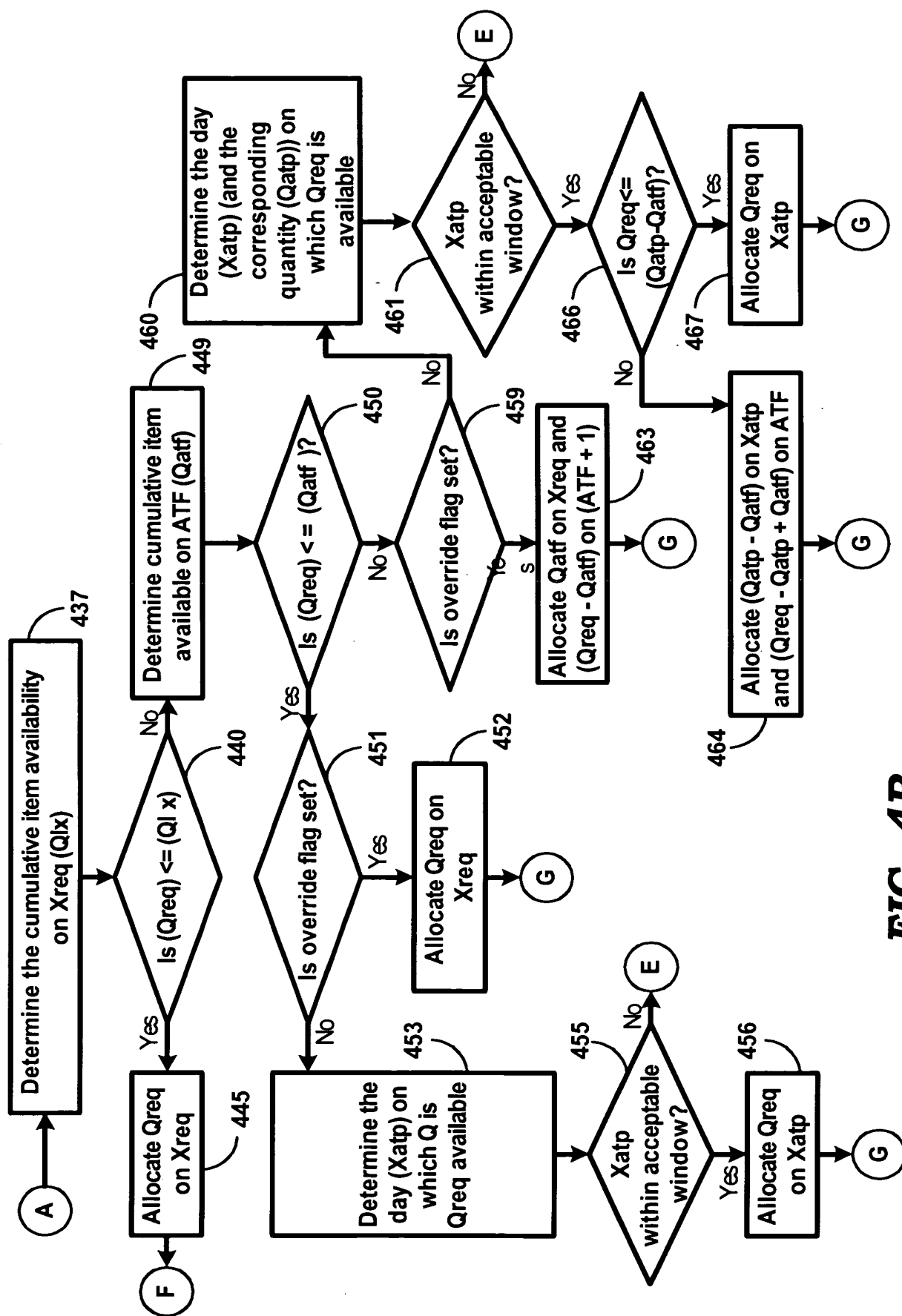


FIG. 4B

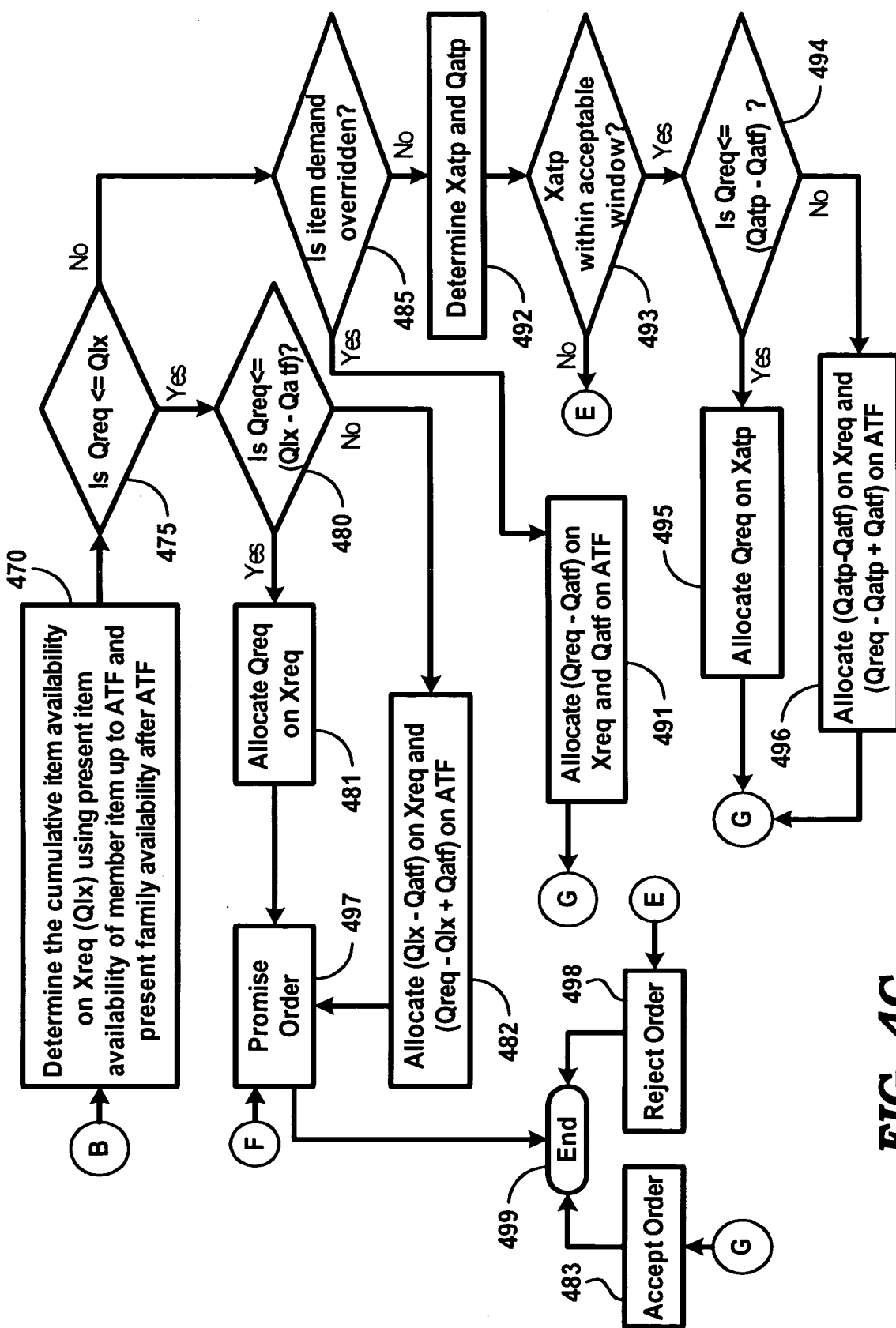


FIG. 4C

500

Items	Day1	Day2	Day3	Day4	Day5	Day6	Day7	Day8
Family Supply	20	20	20	20	20	20	20	20
Family Bucketed allocation						0	0	0
Net Family Available						20	20	20
Backward Consumption						0	0	0
Net + B/W						20	20	20
Forward Consumption						0	0	0
Present family availability						20	20	20
Item Supply -A	10	10	10	10	10			
Item-A demand	0	0	0	0	0			
Item-A Bucketed Allocation	0	0	0	0	0			
Net Item-A Available	10	10	10	10	10			
Backward Consumption	0	0	0	0	0			
Net + B/W	10	10	10	10	10			
Forward Consumption	0	0	0	0	0			
Present Item-A availability	10	10	10	10	10			
Cumulative Item-A availability	10	20	30	40	50	70	90	110
Item Supply -B	10	10	10	10	10			
Item-B demand	0	0	0	0	0			
Item-B Bucketed Allocation	0	0	0	0	0			
Net Item-B Available	10	10	10	10	10			
Backward Consumption	0	0	0	0	0			
Net + B/W	10	10	10	10	10			
Forward Consumption	0	0	0	0	0			
Present Item-B availability	10	10	10	10	10			
Cumulative Item-B availability	10	20	30	40	50	70	90	110

FIG. 5

600

Items	Day1	Day2	Day3	Day4	Day5	Day6	Day7	Day8
Family Supply	20	20	20	20	20	20	20	20
Family Bucketed allocation						0	0	0
Net Family Available						20	20	20
Backward Consumption						0	0	0
Net + B/W						20	20	20
Forward Consumption						0	0	0
Present family availability						20	20	20
Item Supply-A	10	10	10	10	10			
Item-A demand	0	0	30	0	0			
Item-A Bucketed Allocation	0	0	30	0	0			
Net Item-A Available	10	10	-20	10	10			
Backward Consumption	-10	-10	+20	0	0			
Net + B/W	0	0	0	10	10			
Forward Consumption	0	0	0	0	0			
Present Item-A availability	0	0	0	10	10			
Cumulative Item-A availability	0	0	0	10	20	40	60	80
Item Supply -B	10	10	10	10	10			
Item-B demand	0	0	0	0	0			
Item-B Bucketed Allocation	0	0	0	0	0			
Net Item-B Available	10	10	10	10	10			
Backward Consumption	0	0	0	0	0			
Net + B/W	10	10	10	10	10			
Forward Consumption	0	0	0	0	0			
Present Item-B availability	10	10	10	10	10			
Cumulative Item-B availability	10	20	30	40	50	70	90	110

FIG. 6A

651	652	653	654	655	656	657	658	659	660	650
Items	Day1	Day2	Day3	Day4	Day5	Day6	Day7	Day8		
Family	20	20	20	20	20	20	20	20		
Family Supply										
Family Bucketed allocation										
Net Family Available										
Backward Consumption										
Net + B/W										
Forward Consumption										
Present family availability										
Item Supply -A	10	10	10	10	10					
Item-A demand	0	0	30	0	0					
Item-A Bucketed Allocation	0	0	30	0	0					
Net Item-A Available	10	10	-20	10	10					
Backward Consumption	-10	-10	+20	0	0					
Net + B/W	0	0	0	10	10					
Forward Consumption	0	0	0	0	0					
Present Item-A availability	0	0	0	10	10					
Cumulative Item-A availability	0	0	0	10	20	40	60	80		
Item Supply -B	10	10	10	10	10					
Item-B demand	0	20	0	0	0					
Item-B Bucketed Allocation	0	20	0	0	0					
Net Item-B Available	10	-10	10	10	10					
Backward Consumption	-10	+10	0	0	0					
Net + B/W	0	0	10	10	10					
Forward Consumption	0	0	0	0	0					
Present Item-B availability	0	0	10	10	10					
Cumulative Item-B availability	0	0	10	20	30	50	70	90		

FIG. 6B

700

Items	Day1	Day2	Day3	Day4	Day5	Day6	Day7	Day8
Family	Family Supply	20	20	20	20	20	20	20
	Family Bucketed allocation					0	40	0
	Net Family Available					20	-20	20
	Backward Consumption					-20	+20	0
	Net + B/W					0	0	20
	Forward Consumption					0	0	0
Member-A	Present family availability					0	0	20
	Item Supply -A	10	10	10	10			
	Item-A demand	0	0	30	0		50	
	Item-A Bucketed Allocation	0	0	30	0			
	Net Item-A Available	10	10	-20	10			
	Backward Consumption	-10	-10	+20	0			
Member-B	Net + B/W	0	0	0	10			
	Forward Consumption	0	0	0	0			
	Present Item-A availability	0	0	0	10			
	Cumulative Item-A availability	0	0	0	10	10	10	30
	Item Supply -B	10	10	10	10			
	Item-B demand	0	20	0	0			
	Item-B Bucketed Allocation	0	20	0	0			
	Net Item-B Available	10	-10	10	10			
	Backward Consumption	-10	+10	0	0			
	Net + B/W	0	0	10	10			
	Forward Consumption	0	0	0	0			
	Present Item-B availability	0	0	10	10			
	Cumulative Item-B availability	0	0	10	20	30	30	50

FIG. 7

800

Items	Day1	Day2	Day3	Day4	Day5	Day6	Day7	Day8
Family Supply	20	20	20	20	20	20	20	20
Family Bucketed allocation								35(15)
Net Family Available						20	-20	-15
Backward Consumption						-20	+20	0
Net + B/W						0	0	-15
Forward Consumption						0	0	+15
Present family availability						0	0	0
Item Supply -A	10	10	10	10	10			
Item-A demand	0	0	30	0	0		50	
Item-A Bucketed Allocation	0	0	30	0	10			
Net Item-A Available	10	10	-20	10	0			
Backward Consumption	-10	-10	+20	0	0			
Net + B/W	0	0	0	10	0			
Forward Consumption	0	0	0	0	0			
Present Item-A availability	0	0	0	10	0			
Cumulative Item-A availability	0	0	0	10	10	10	10	10
Item Supply -B	10	10	10	10	10			
Item-B demand	0	20	0	0	0			65
Item-B Bucketed Allocation	0	20	0	0	30			
Net Item-B Available	10	-10	10	10	-20			
Backward Consumption	-10	+10	-10	-10	+20			
Net + B/W	0	0	0	0	0			
Forward Consumption	0	0	0	0	0			
Present Item-B availability	0	0	0	0	0			
Cumulative Item-B availability	0	0	0	0	0	0	0	0

FIG. 8

900

951	952	953	954	955	956	957	958	959	960	965
Items	Day1	Day2	Day3	Day4	Day5	Day6	Day7	Day8		
Family	Family Supply	20	20	20	20	20	20	20		970
	Family Bucketed allocation						(10)	40	35(15)	971
	Net Family Available						10	-20	-15	972
	Backward Consumption						-10	+10	0	973
	Net + B/W						0	-10	-15	974
	Forward Consumption						0	+10	15	975
Memb er-A	Present family availability						0	0	0	978
	Item Supply -A	10	10	10	10	10				980
	Item-A demand	20	0	30	0	0		50		981
	Item-A Bucketed Allocation	10	0	30	0	10				982
	Net Item-A Available	0	10	-20	10	0				983
	Backward Consumption	0	-10	10	0	0				984
Memb er-B	Net + B/W	0	0	-10	10	0				985
	Forward Consumption	0	0	10	-10	0				986
	Present Item-A availability	0	0	0	0	0				988
	Cumulative Item-A availability	0	0	0	0	0	0	0	0	989
	Item Supply -B	10	10	10	10	10				990
	Item-B demand	0	20	0	0	0			65	991
Memb er-B	Item-B Bucketed Allocation	0	20	0	0	30				992
	Net Item-B Available	10	-10	10	10	-20				993
	Backward Consumption	-10	+10	-10	-10	+20				994
	Net + B/W	0	0	0	0	0				995
	Forward Consumption	0	0	0	0	0				996
	Present Item-B availability	0	0	0	0	0				998
	Cumulative Item-B availability	0	0	0	0	0	0	0	0	999

FIG. 9

1000

Items	Day1	Day2	Day3	Day4	Day5	Day6	Day7	Day8
Family	Family Supply	20	20	20	20	20	20	20
	Family Bucketed allocation					0	40	35(15)
	Net Family Available					20	-20	-15
	Backward Consumption					-20	20	0
	Net + B/W					0	0	-15
	Forward Consumption					0	0	15
	Present family availability					0	0	0
Member-A	Item Supply -A	10	10	10	10			
	Item-A demand	20	0	0	0		50	
	Item-A Bucketed Allocation	20	0	0	0			
	Net Item-A Available	-10	10	10	0			
	Backward Consumption	0	0	0	0			
	Net + B/W	-10	10	10	0			
	Forward Consumption	10	-10	0	0			
	Present Item-A availability	0	0	10	10			
	Cumulative Item-A availability	0	0	10	20	20	20	20
	Item Supply -B	10	10	10	10			
Member-B	Item-B demand	0	20	0	0			65
	Item-B Bucketed Allocation	0	20	0	0			
	Net Item-B Available	10	-10	10	10			
	Backward Consumption	-10	+10	-10	-10			
	Net + B/W	0	0	0	0			
	Forward Consumption	0	0	0	0			
	Present Item-B availability	0	0	0	0			
	Cumulative Item-B availability	0	0	0	0	0	0	0

FIG. 10

1100

Items	Day1	Day2	Day3	Day4	Day5	Day6	Day7	Day8
Family	Family Supply	20	20	20	20	20	20	20
	Family Bucketed allocation					0	0	35
	Net Family Available					20	20	-15
	Backward Consumption					0	-15	+15
	Net + B/W					20	5	0
	Forward Consumption					0	0	0
	Present family availability					20	5	0
	Item Supply -A	10	10	10	10			
Member-A	Item-A demand	20	0	0	0			
	Item-A Bucketed Allocation	20	0	0	0			
	Net Item-A Available	-10	10	10	10			
	Backward Consumption	0	0	0	0			
	Net + B/W	-10	10	10	10			
	Forward Consumption	10	-10	0	0			
	Present Item-A availability	0	0	10	10			
	Cumulative Item-A availability	0	0	10	20	30	55	55
Member-B	Item Supply -B	10	10	10	10			
	Item-B demand	0	20	0	0			65
	Item-B Bucketed Allocation	0	20	0	0			
	Net Item-B Available	10	-10	10	10	-20		
	Backward Consumption	-10	+10	-10	-10	+20		
	Net + B/W	0	0	0	0	0		
	Forward Consumption	0	0	0	0	0		
	Present Item-B availability	0	0	0	0	0		
	Cumulative Item-B availability	0	0	0	0	20	25	25

FIG. 11